Javier **Cabrera Arteaga**, PhD Student

Software Engineering, Software and Computer Systems, KTH Royal Institute of Technology

javierca@kth.se jacarte.me

Lindstedtsvägen 3, Level 5, Office 1547 Stockholm, Sweden (+46) 0730802194

Education

PhD student, Division of Software and Computer Systems (SCS), KTH, Sweden — 2019 -present
Master of Science (M.Sc.), Faculty of Math and Computer Science, Havana, Cuba — 2016

Courses

Introduction to High Performance Computing, KTH — FDD3258, 2020

Research preparation course in programming languages and formal methods, KTH — FDD3024, 2020

Advanced Ethical Hacking, KTH — FEP3370, 2019

Critical Perspectives on Data Science and Machine Learning, KTH — FDT3303, 2019

Course on Modeling & Solving Combinatorial Problems with MiniZinc, KTH — 2019

Experience

Contractor,Software Engineer at Fastly.Inc — Sep 2021-Nov 2021

PhD student, Division of Software and Computer Systems (SCS), KTH, Sweden — 2019 -present

Software Engineer, Iberant.SL, Madrid,Spain — 2017–2019

Assistant professor, University of Havana, Havana, Cuba — 2016–2019
Assistant professor in Compiling and Language Theory.

Languages

Spanish: Native proficiency

English: Full professional proficiency

Publications

Conference papers

[1] CROW: Code Diversification for WebAssembly
Javier Cabrera Arteaga, Orestis Floros Malivitsis, Oscar Luis Vera Pérez, Benoit Baudry, Martin Monperrus
Proceedings of MADWeb, 2021

[2] Superoptimization of WebAssembly Bytecode
Javier Cabrera Arteaga, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus
Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming, 2020, Association for Computing Machinery
DOI: 10.1145/3397537.3397567
URL: https://doi.org/10.1145/3397537.3397567

[3] Scalable Comparison of JavaScript V8 Bytecode Traces
Javier Cabrera Arteaga, Martin Monperrus, Benoit Baudry
Proceedings of the 11th ACM SIGPLAN International Workshop on Virtual Machines and Intermediate Languages, 2019, ACM
DOI: 10.1145/3358504.3361228
URL: http://doi.acm.org/10.1145/3358504.3361228

Supervised master theses

[1] Comparison of Smoothness in Progressive Web Apps and Mobile Applications on Android
Camille Fournier
2020